

OWNERS' HANDBOOK



Introduction

The Arcam Alpha integrated stereo amplifier has been designed to provide a combination of high quality sound reproduction and sophisticated styling.

The amplifier has five switchable inputs accepting signals from a turntable (fitted with a moving magnet or high output moving coil cartridge), a tuner, a compact disc player, a video sound output and a tape recorder. It provides outputs for a pair of loudspeakers and for headphones, and low level signals suitable for recording on to tape. Although designed for simplicity of operation the Alpha has comprehensive tone control facilities which enable good results to be obtained with a wide variety of programme material.

Mains connection

Check that the amplifier voltage setting as indicated on the back panel is the same as the local mains supply.

The wires in the mains lead are coloured in accordance with the following code:

| BROWNLIVE | BLUENEUTRAL | GREEN AND YELLOW EARTH |
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AS THE COLOURS OF THE WIRES IN THE MAINS LEAD MAY NOT CORRESPOND WITH THE COLOURED MARKINGS IDENTIFYING THE TERMINALS IN YOUR PLUG PROCEED AS FOLLOWS:

The wire which is coloured GREEN AND YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol — or coloured GREEN or GREEN AND YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked by the letter N or coloured BROWN must be connected to the terminal which is marked by the letter L or coloured BROWN must be connected to the terminal which is marked by the letter L or coloured RED or BROWN. If the mains plug is fused fit a 5A fuse.

Rear panel connections

Connect the system together as shown in the diagram. All inputs and tape outputs are via RCA phono connectors.

The disc input is suitable for moving magnet and high output moving coil cartridges.

The CD input is specifically designed to match CD players and so has a lower sensitivity than the other line inputs.

The CD and VIDEO inputs may also be used as general purpose inputs for sources with a suitable line level output – e.g. a second tape

Loudspeaker outputs

The outputs are suitable for driving loudspeakers in the range 4-16 ohm impedance.

The loudspeaker sockets accept the 4mm plugs provided. The upper three terminals are for the left hand speaker and the lower three for the right hand speaker. One side of the speaker (normally the – side) should be connected to the centre (black) terminal; the other, (the + side) may be connected to either the direct or the switched terminal (both red). When the "direct" output is used, loudspeakers and headphones may be used together; when the "switched" output is used, insertion of the headphones will automatically turn off the loudspeakers.

Loudspeaker fuses

These are 2.0 amp fast blow 20mm x 5mm diameter fuses. They may blow if the amplifier is:

run continuously at very high level into the correct loudspeaker load
 run at high level into a loudspeaker of too low an impedance (less than 4 ohms)
 run into a short circuit

They are user-replaceable and two spares are provided. However, if they blow consistently in the absence of any of the above conditions please consult your dealer.

To remove a fuse from its holder simply push in, twist 1/4 turn anticlockwise and pull the fuse out.

DO NOT replace with a fuse of greater value than 2.0 amps (or with a "slow blow" or "antisurge" fuse) since this will endanger the amplifier and your loudspeakers and invalidate your guarantee.

Front panel controls

From left to right the controls are

the "tape out" sockets The input selector switch selects which input signal is fed to the loudspeakers and headphones. The selected signal is also fed to

Volume

both the loudspeakers and headphones The volume control adjusts the sound level for

turned clockwise. The flattest response is "click" position obtained when the control is in the centre turned anti-clockwise and boosts them when The bass control cuts low frequencies when

Treble

"click" position. obtained when the control is in the centre turned clockwise. The flattest response is turned anti-clockwise and boosts them when The treble control cuts high frequencies when

Balance

acoustics or input signals. to compensate for imbalances in room sound image to the left or right. It can be used The balance control is used to move the stereo

Phones

are normally connected to the loudspeaker driving most electrostatic headphones. These loudspeakers). The output is not suitable for the loudspeakers, or not, as required (see The headphone socket accepts any dynamic headphones fitted with a standard 1/4 inch stereo jack plug. The headphones may mute

amplifier has been switched off. it will continue to glow for a short time after the the power supply in the amplifier is operating mains power switch. The red light indicates that The amplifier is turned on by pressing the

Tape recording and replay

reel-to-reel and cassette tape recorders The tape input/output is designed to suit most

Recording:

"RECORD" mode. on your tape recorder and switch it into VIDEO). Then set the correct recording levels the selector switch (DISC, TUNER, CD or Select the signal source to be recorded using

During recording the volume and tone controls have no effect on the signal being sent to the TAPE OUT sockets.

selector switch set to "TAPE". A DO NOT attempt to record with the damage your loudspeakers feedback howl may result which could

Replay:

switch your tape recorder into "PLAY" Set the selector switch to "TAPE" and then mode

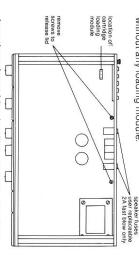
Cartridge loading module (optional)

cover from the amplifier. loading module you will need to remove the top different cartridges. In order to install the different capacitive and resistive loads to suit purely passive and incorporates a number of and the Arcam Alpha amplifier. The module is matching between a moving magnet cartridge available which is designed to allow optimum A cartridge loading module (ULM/M) is

FROM THE WALL SOCKET. BEFORE REMOVING THE COVER, ALWAYS SWITCH OFF THE AMPLIFIER AND UNPLUG

two screws indicated in the diagram and lifting the lid out. The cover may be removed by unscrewing the

without any loading module. N.B. Most cartridges will perform satisfactorily



Location of cartridge loading module – top view

Hints and tips

Speaker stands are ideal For best results place the speakers away from the wall, NOT in a corner, and off the floor.

cable is joined properly to the 4mm plugs use thick speaker cable. Always ensure that the loudspeakers is long, it may be worthwhile to If the cable from the amplifier to the

same piece of furniture. speakers - they should not be placed on the avoid acoustic pickup by the turntable from the Keep the turntable away from the speakers to

consult your dealer. touch, switch off the amplifier at once and NORMAL! However, if it becomes too hot to used at high levels. THIS IS PERFECTL The amplifier will get quite warm when being

amplifier is correctly earthed via the mains just above the disc input sockets and that the turntable is connected to the ground terminal selected check that the earthing lead from the If there is a lot of hum with the disc input lead

If your system does not work check that:

is on the amplifier is switched on and the red light

the source is plugged into the correct input

- the selector switch is switched to the correct
- source
- correctly the speakers are plugged into the amplifier the volume control is not set to minimum
- the speaker fuses have not blown the fuse in the mains plug has not blown

that: If sound comes out of one speaker only check

- both speakers are plugged into the amplifier
- or anticlockwise the balance control is not set fully clockwise a speaker fuse has not blown
- wiring is not faulty (check by swapping left and connected to the inputs correctly and the input both left and right channels of the source are right input connectors)

Guarantee for UK sales.

(The words "consumer sale" shall be construed in accordance with Section 15 of the Supply of Goods (Implied Terms) Act 1973). new from an authorised UK dealer under a consumer sale agreement. years from the date of purchase provided that it was originally purchased This equipment has been fully tested before despatch from the factory. Both the workmanship and the performance of this equipment are (except as set out below) guaranteed against defects for a period of two

under this guarantee. damage or loss occurring during transit to or from the person claiming accident, misuse, wear and tear, or neglect or through unauthorised adjustment and or repair, neither can they accept responsibility for The Manufacturers can accept no responsibility for defects arising from

circumstances extends to consequential loss or damage. discretion of the Manufacturers) of the defective parts and under no Manufacturers is limited to the cost of repair or replacement (at the This guarantee covers both labour and parts but the liability of the

Claims under this guarantee

carriage prepaid by a reputable carrier. pack" (available from your dealer or direct from the factory) and sent This equipment should be packed in the original packing and returned to the dealer from whom it was purchased or, falling this, any other authorised A & R Cambridge dealer. If it is not possible to return the equipment by hand, then it should be further protected in a "transit engineer by hand.

sent by post be purchased from the Manufacturers. The equipment should not be Should the original packing not be available, replacement packing can

DO NOT CONSIGN THE EQUIPMENT TO A & R CAMBRIDGE UNLESS YOU HAVE FIRST BEEN SPECIFICALLY REQUESTED TO GO SO BY THE MANUFACTURERYS TECHNICAL SERVICE DEPARTMENT. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO DISASSEMBLE THE EQUIPMENT BEFORE DESPATCH.

contact the If you have any difficulty complying with these requirements, please Manufacturers at the following address:-A & R Cambridge Limited

Cambridge CB5 9PB Waterbeach Denny Industrial Centre

Tel: (0223) 861550 Telex: 817345 (ARCAM G)

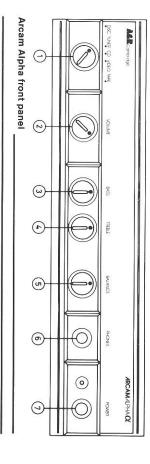
In either case you should state clearly your name and address, the date and place of purchase, together with a brief description of the fault

In the event of equipment being returned which on test is found to comply with the published specification the Manufacturers reserve the right to charge a reasonable fee for testing the equipment and for return

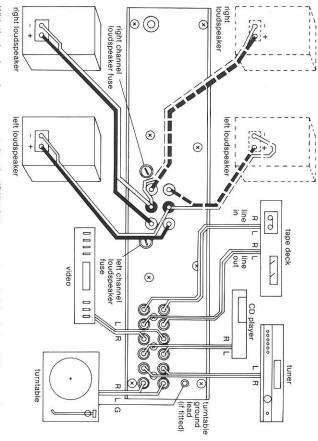
Enquiries

regarding the use of this equipment on the condition that this enquiry is by letter and a stamped addressed envelope is provided. You should state clearly the serial number of the unit, the dealer from whom it was purchased and the date of purchase The Manufacturers are happy to answer any queries you may have

THIS GUARANTEE IN NO WAY VARIES OR REMOVES PURCHASER'S STATUTORY RIGHTS.



With the loudspeakers connected to the "SWITCHED" outputs, plugging in the headphones automatically switches the loudspeakers off.



With the loudspeakers connected to the "DIRECT" outputs the switch in the headphone socket is bypassed to give better sound quality but the headphones will not switch the loudspeakers off.

Connection diagram

Specifications

(Noise and sensitivities ref. 30W into 8ohm at 1kHz. Noise figures are CCIR/ARM weighted.)

Output power

Both channels into 8chms (20Hz-20kHz at 0.5% THD) Single channel at 1kHz

into 80hm into 40hm

This amplifier is suitable for use with loudspeakers of 4ohm or higher

30W 40W typ Input impedance

Noise

450mV <-90dB 10kohm

Sensitivity

Outputs

Output impedance Tape output Nominal output level

60W typ.

Maximum output level into 600ohms

Output impedance

Suitable for headphones of 80hm to 2kohm impedance

10V rms 330ohm

200mV 2kohm

0.02% typ

Nominal output level Loudspeakers

typ ±0.5dB 60Hz-20kHz, -3dB at 20Hz typ ±0.5dB 30Hz-20kHz, -1dB at 20Hz

Disc input Other inputs

Crosstalk at 1kHz Frequency response Harmonic distortion At 25W into 8ohm at 1kHz nominal impedance.

Low frequency damping factor

Suitable for speakers of 4ohm or higher nominal impedance

30W per channel

240V nominal. May be dealer adjusted to 120V nominal. (220/110V model to special order). Power supply

200 typ <-60dB

Power consumption 120VA

±8dB

Internal mains fuse

500mAT (slow blow) for 240V or 220V operation 1AT (slow blow for 120V or 110V operation

The internal mains tuse is NOT user replaceable!

Spares kit

47kohm in parallel with 100pF

<-70dB

8kohm, 200pF, 320pF, 420pF and user programmable option. Switchable loading module (ULM/M) available - provides 30kohm, Input impedance Noise

Sensitivity

Inputs Treble at 15kHz Bass at 50Hz Tone controls

Disc (suitable for MM and "high-output" MC cartridges)

Two loudspeaker fuses (2.0A fast blow)

Two black 4mm plugs Two red 4mm plugs

Depth Width Height Dimensions 400 mm 231 mm 95 mm (15.87) (9.17) (3.87)

25kohm

<-90dB

200mV

Noise Sensitivity Tuner, tape and video

Input impedance

Weight Net 4kg (8.8lb)

notice Specifications and design subject to possible modification without



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